

Title (en)
Ball screw

Title (de)
Kugelumlaufspindel

Title (fr)
Mécanisme de vis à billes

Publication
EP 1281880 B1 20070606 (EN)

Application
EP 02017415 A 20020802

Priority
JP 2001236569 A 20010803

Abstract (en)
[origin: EP1281880A2] The ball screw comprises a shaft (1) including a spiral-shaped shaft groove (1a) having a semicircular-shaped (Gothic-arch-shaped) section, a nut including a spiral-shaped nut ball groove (3a) which corresponds to the shaft groove and has a semicircular-shaped (Gothic-arch-shaped) section, a large number of balls rotatably fitted into between the nut ball groove and shaft groove in such a manner that they are held by and between these two grooves, and a circulation member capable of defining a ball circulation passage for allowing the balls to circulate endlessly therethrough, wherein a portion of the nut ball groove (R2) is formed larger in the effective diameter than the remaining portions of the nut.
<IMAGE> <IMAGE>

IPC 8 full level
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Cited by
DE102012211871A1; DE102018103218A1; DE102018103218B4; WO2010094706A1; DE102012211871B4; EP1559929A3; DE102009009851A1; WO2014006152A1; US9746059B2; WO2019158150A1; US11614150B2

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